

## CERES Requirements Log - Clouds

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
4-1	Update Terra Main Processor for MODIS Collection 5 and handle Edition 3 changes	603	Geier	Clouds/ Convolution	Sun-Mack	Email, phone, and face-to-face	04/20/05	04/20/05		The delivery for Terra only will not be necessary. We have integrated the changes for Edition3 into this requirement.
4-1.1	Integrate updated CERES cloud mask code	603	Minnis	Clouds	Sun-Mack	Email	04/20/05	04/20/05		Waiting science code changes (Minnis approval).
4-1.2	Update MOD04 read software to handle rename SDS and change in dimensions for Collection 5	603	Geier	Clouds	Sun-Mack	Email	08/24/05	08/24/05		MOD04 file format reviewed. Test files have been read.
4-1.3	Update cloud algorithms to be similar to Aqua production code	603	Minnis	Clouds	Sun-Mack	Meeting on production schedule	08/11/05	08/11/05		The Terra version of the code has been frozen in production while updates were allowed in the Aqua version. Compatibility was maintained for both satellite in latter versions. The Aqua version will be used as baseline for Edition 3 updates.
4-1.4	Update convolution code to match Aqua production code	603	Geier	Convolution	Miller	Meeting on production schedule	08/11/05	08/11/05		The Terra version of the code has been frozen in production while updates were allowed in the Aqua version. Compatibility was maintained for both satellite in latter versions. The Aqua version will be used as baseline for Edition 3 updates.
4-1.5	Write and implement the initial MCRS-IR Algorithm to retrieval cloud properties	603	Minnis	Clouds	Sun-Mack	Email and face-to-face	06/15/05	06/15/05		Need to validate.
4-1.6	Write a 250 meter MODIS read software to retrieve visible radiances	603	Minnis	Clouds	Sun-Mack	Email	11/15/05	11/15/05	04/15/06	Completed.
4-1.7	With 250 meter reader, write software to implement Partial Cloudy Algorithm	603	Minnis	Clouds	Sun-Mack	Email and meeting.	11/15/05	11/15/05		Initial results looks good for certain types of clouds and not so good for ice cloud. Need to design a strategy when and where to apply the algorithm.
4-1.8	Implement the latest CO2 Slicing Algorithm from MODIS team.	603	Minnis	Clouds	Sun-Mack	Email	01/26/06	01/26/06	05/30/06	Overall, results look good. Need to find out the cause of stripping over high elevation.

### CERES Requirements Log - Clouds

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
4.1-9	Implement the CO2 Slicing Multilayer Detection Algorithm	603	Minnis	Clouds	Sun-Mack	Email, face-to-face, phone, meeting.	02/22/06	02/22/06		Need to validate.
4.1-10	Correct missing imager data algorithm	603	Geier	Convolution	Miller	Email	04/27/06	04/27/06		
4.1-11	Update SSF structure as proposed	603	Geier	Convolution	Miller	Meeting and Emails	05/30/06	05/30/06		
4.1-12	Convolve imager information for new parameters	603	Geier	Convolution	Miller	Meeting on production schedule	05/30/06	06/05/06		
4-2	Modify PCF Generator Script for FM4 Ed2-NoSW	609	Geier	Clouds/ Convolution	Miller	Email	12/12/05	01/09/06	01/20/06	Delivered. Promoted 2/16/06.